STATE OF IDAHO

DEPARTMENT OF FISH AND GAME

Robert L. Salter
Acting Director

FEDERAL AID IN FISH RESTORATION

COMPLETION REPORT

Project F 44-D-1

SPRING VALLEY DAM

Period: 2-15-61 to 12-31-61

By

Vernon B. Rich
Coordinator, Idaho Federal Aid

COMPLETION REPORT

DEVELOPMENT PROJECT

State of Idaho

Project No. F 44-D-1

Title Spring Valley Dam

The plans, specifications and estimates providing for the construction of Spring Valley Dam to the following general specifications was approved by the Bureau of Sport Fisheries and Wildlife as a federal aid project on June 15, 1961.

1. Height: 45 feet
2. Length: 321 feet
3. Top width: 14 feet
4. Core wall: compact clay
5. Total cubic yardage: 42,700
6. Slope: upper surface will be constructed on a 3-1 slope
   lower surface will be constructed on a 2-1 slope
7. Impoundment created: 13,300 acre feet – approximately 52.5 surface acres

Project F 44-D-1 was amended July 21, 1961, to increase project funds as necessary to cover additional work and improvements incorporated in the plan, but which were not included in the original cost estimate. Also, in excavating to solid rock in order to provide a suitable base for the dam, a fault was encountered which necessitated project amendment No. 2 dated October 27, 1961, to provide further additional funds and include corrective measures as recommended by consulting engineers to insure stability and safety of the dam structure.

The State of Idaho, Department of Public Works, legally advertised for bids for the construction of the dam, with opening and reading of the bids scheduled for July 6, 1961. Only two bids were received as follows:

Name	Amount
1. Rhodes and McKay 3011 Innis Boise, Idaho	$185,011.00
2. Commercial Builders, Inc. 301 College Avenue Moscow, Idaho	$104,343.52

The low bid was further reduced by mutual agreement on Items 10 and 11 of the official bid to $98,162.04. However, the bid price for construction included several bid items on a unit cost basis; therefore, actual construction cost of the dam could vary as actual rock, earth excavation and subsequent earth fill varied from the cubic yardage as estimated from preliminary and exploratory core drilling along the axis of the dam, for bid purposes.

Actual contract cost of dam construction, including the additional work and materials to correct the fault encountered, was $104,498.66.

Commercial Builders, Inc., utilizing equipment listed below, began actual construction work at the site on July 24, 1961 and completed the dam on December 1, 1961, thirty-two days ahead of the authorized contract completion date.

Construction Equipment Utilized By Contractor:

2 - 23 cu. Yd. Turnapulls
1 - DA-8 Caterpillar Tractor
1 - DA-4 " "
2 - DA-2 " "
1 - HC No. 11 (3 cu. Yd.) Loader
8 - Dump Trucks
1 - Vibra Packer
2 - Sheepfoot Rollers
2 - Water Tank Sprinklers
1 - Compressor
3 - Jack Hammers
2 - Barco Hammers
2 - Water Pumps
2 - Electric Generators

Frank Lanham, inspector working under the direct supervision of Ivol Sies, Improvement Supervisor, Idaho Department of Fish and Game, and T. C. Butler, Consultant Engineer, inspected all work for conformance with the approved plans, specifications and estimates.

The total cost of the Spring Valley Dam, including pre-engineering and engineering supervision costs, was $117,192.92.

The photos showing various features of the dam and construction work are attached.

Submitted by:

Vernon B, Rich, Coordinator
Idaho Federal Aid

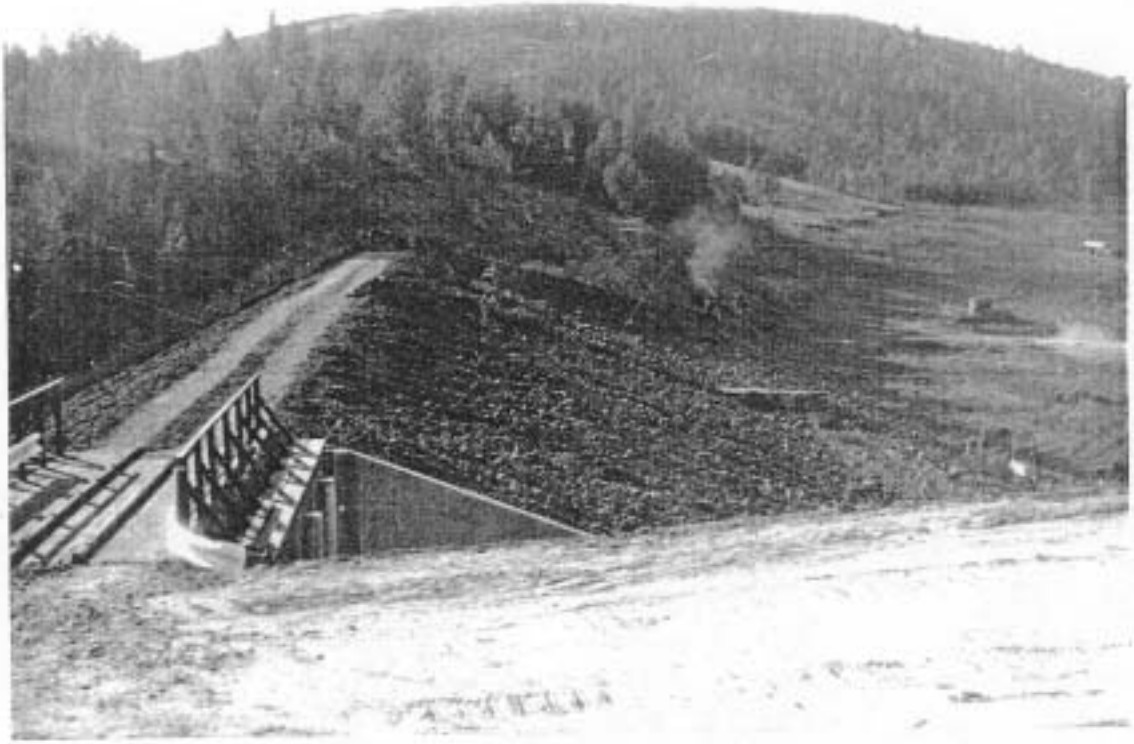
Approved by:

IDAHO DEPARTMENT OF FISH AND GAME

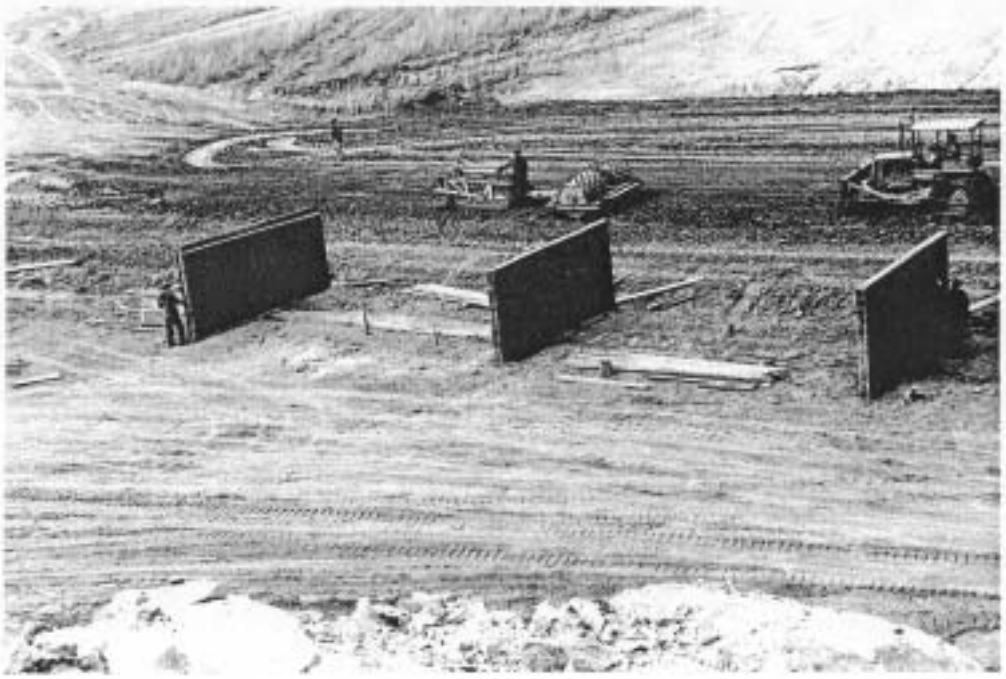
By_____
Robert L. Salter
Acting Director

By_____
James C. Simpson, Chief
Fisheries Division

Riprap on lower surface of Spring Valley Dam.



Upper surface of Spring Valley Dam showing
bridge over emergency spillway.



DEC 1961

Concrete seeprings and concrete covered water release pipe.

DEC 1961

23 cu. yd. turnapull, DA-8 cat,
DA-2 pulling Viko packer and sheepfoot roller.

Concrete seepring

Clay packed in fault.

Crush gravel packed in fault to form gravel pipe.